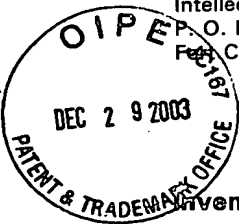


12/30/03

HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 272400  
Ft. Collins, Colorado 80527-2400

2187  
PATENT APPLICATION

ATTORNEY DOCKET NO. 10016630-1



IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Terry Lyon

Application No.: 10/071,069

Filing Date: Feb. 8, 2002

Title: MULTILEVEL CACHE SYSTEM HAVING UNIFIED CACHE TAG MEMORY

Confirmation No.: 3380

Examiner: K. Mclean-Mayo

Group Art Unit: 2187

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

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INFORMATION DISCLOSURE STATEMENT

Sir:

Technology Center 2100

This Information Disclosure Statement is submitted:

- ( ) under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- (X) under 37 CFR 1.97(c) together with either a:
  - (X) Statement under 37 CFR 1.97(e), or
  - ( ) a \$180.00 fee under 37 CFR 1.17(p), or(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ( ) under 37 CFR 1.97 (d) together with a:
  - ( ) Statement under 37 CFR 1.97(e)(1) or (2), and
  - ( ) a \$180.00 fee set forth in 37 CFR 1.17(p).(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. **EV 210656406 US**

Date of Deposit **Dec. 29, 2003**

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By

Typed Name: **Wendy Precht**

Respectfully submitted,

**Terry Lyon**

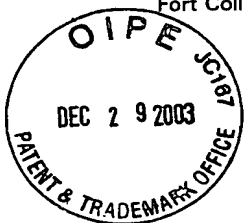
By

**Peter C. Knops**

Attorney/Agent for Applicant(s)

Reg. No. **37,659**

Date: **Dec. 29, 2003**



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Commissioner for Patents  
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STATEMENT UNDER 37 CFR 1.97(e)


Technology Center 2100

Sir:

The undersigned hereby certifies that either:

- (X) Each item of information contained in the Information Disclosure Statement was cited for the first time in a communication from a foreign patent office in a counterpart foreign application, not more than three months prior to the filing of the statement, or
- ( ) No item of information contained in the Information Disclosure Statement
- was cited in a communication from a foreign patent office in a counterpart foreign application, and
  - to the knowledge of the undersigned, after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56 (c) more than three months prior to the filing of the Information Disclosure Statement.

Respectfully submitted,  
Terry Lyon

By   
Peter C. Knops

Attorney/Agent for Applicant(s)  
Reg. No. 37,659

Date: Dec. 29, 2003

Telephone No.: (816) 460-5826



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10016630-1

APPLICATION NO.

10/071,069

CONFIRMATION NO.

3380

APPLICANT

Terry Lyon

FILING DATE

Feb. 8, 2002

GROUP

2187

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	6,591,341 B1	Jul 8, 2003	Sharma	
	1B	5,860,078	Jan. 12, 1999	Emmot	
	1C	5,649,154	Jul. 15, 1997	Kumar, et al.	
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	Lee, et al, "Shared tag for MMU and cache memory," pp 77-80, CAS '97 Proceedings, vol. 1, IEEE, Oct. 1997
	1R	Lee, et al., "Indirectly-compared cache tag memory using a shared tag in a TLB," pp 1764-1766, Electronics Letters, vol. 3, No. 21, Oct. 1997
	1S	

EXAMINER

DATE CONSIDERED